

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/07300

A. CLASSIFICATION OF SUBJECT MATTER

IPC: C12N 15/11(2006.01);C07K 14/01(2006.01);C12N 9/00(2006.01);A01K 67/00(2006.01)

USPC: 536/23.1;435/183;530/350;800/18

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 536/23.1; 435/183; 530/350; 800/18

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Medline, BIOSIS, EAST, PCTFULL

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	Chen, D and A. Garg. Monogenic disorders and body fat distribution. Journal of Lipid Research. 1999. Vol. 40, pages 1735-1746, see entire reference.	1-28
A	Jackson, R.S. et al. Obesity and impaired prohormone processing associated with mutations in the human prohormone convertase 1 gene. Nature Genetics. July 1997, Vol. 16, No. 3, pages 303-306, see entire document.	1-28
Y	Zhou, Y. et al. Mutational Analysis of PC1 (SPC3) in PC12 Cells. Journal of Biological Chemistry. October 1995. Vol. 270, No. 42, pages 24702-24706, especially pages 24702-24703.	1-16
Y	Goodman, L.J. and C.M. Gorman. Autoproteolytic Activation of the Mouse Prohormone Convertase MPC1. Biochemical and Biophysical Research Communications. June 15, 1994. Vol. 201, No. 2, pages 795-804, see entire document, especially pages 796-798.	1-16



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"

document member of the same patent family

Date of the actual completion of the international search

13 February 2006 (13.02.2006)

Date of mailing of the international search report

13 NOV 2006

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Facsimile No. (571) 273-3201

Authorized officer

Marcia S. Noble

Telephone No. (571) 272-2700

INTERNATIONAL SEARCH REPORTInternational application No.
PCT/US05/07300**C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2003/0031654 A1 (Gorman et al) 13 February 2003 (13.02.2003), [0056], [0060], [0109], [0102], and [0258]-[0265]	1-28